

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 August 2001 (16.08.2001)

PCT

(10) International Publication Number  
**WO 01/60011 A3**

(51) International Patent Classification<sup>7</sup>: H04L 29/06, 12/56

(21) International Application Number: PCT/US01/03864

(22) International Filing Date: 6 February 2001 (06.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/181,037 8 February 2000 (08.02.2000) US

(71) Applicant: LUCENT TECHNOLOGIES INC.  
[US/US]; 600 Mountain Avenue, Murray Hill, NJ  
07974-0636 (US).

(72) Inventors: BULLMAN, William, R.; 3836 Post Drive,  
Bethlehem, PA 18017 (US). HENRY, Matthew, R.;  
8452 Oak Knoll Street, Fogelsville, PA 18051 (US).  
HOLMQVIST, Ryan, S.; 4721 Harriet Lane, Bethlehem,  
PA 18017 (US). STRAUSS, Steven, E.; 1714 Laurel Lane,  
Orefield, PA 18069 (US).

(74) Agent: BOISBRUN, Glenn, W.; Hill Gaines & Boisbrun,  
PC, P.O. Box 832570, Richardson, TX 75083 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

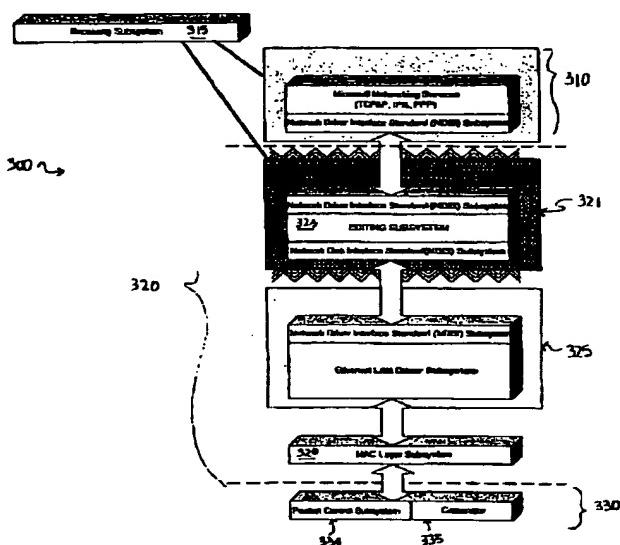
Published:

— with international search report

(88) Date of publication of the international search report:  
28 March 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A TRANSLATION SYSTEM AND RELATED METHOD FOR USE WITH A COMMUNICATION DEVICE



(57) Abstract: A translation system and related method for use with a communications device having a physical layer system and a data link layer system with a media access control layer subsystem and coupleable to a communications network. In one embodiment, the translation system includes a generator that constructs a piggyback packet containing characteristics associated with the physical layer system. The translation system also includes a correlator, coupled to the generator, that receives the piggyback packet and extracts information about the physical layer system. The generator and correlator transmit and receive the piggyback packet without substantially modifying the media access control layer subsystem.

WO 01/60011 A3

# INTERNATIONAL SEARCH REPORT

Int'l Application No

PCT/US 01/03864

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H04L29/06 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 963 551 A (MINKO JACEK) 5 October 1999 (1999-10-05)  column 3, line 1 - line 9 column 9, line 34 - line 37	1-7, 9-19, 21-31, 33-36
Y	EP 0 905 950 A (SONY CORP ;NIPPON TELEGRAPH & TELEPHONE (JP)) 31 March 1999 (1999-03-31) paragraph '0024! ---	7, 8, 19, 20, 31, 32
Y	EP 0 905 950 A (SONY CORP ;NIPPON TELEGRAPH & TELEPHONE (JP)) 31 March 1999 (1999-03-31) paragraph '0024! ---	8, 20, 32
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

20 November 2001

Date of mailing of the international search report

27/11/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl  
Fax: (+31-70) 340-3016

Authorized officer

Siebel, C

# INTERNATIONAL SEARCH REPORT

Int'l Application No

PCT/US 01/03864

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Procedures for real-time Group 3 facsimile communication over ip-networks" ITU-T RECOMMENDATION T.38, XX, XX, June 1998 (1998-06), pages 1-30, XP002163782 figure 5 page 2, line 14 - line 26 paragraph '07.2! - paragraph '7.3.2! -----	37
Y		7, 19, 31
A		38-41
A	JP 10 290237 A (SONY CORP) 27 October 1998 (1998-10-27) -& US 6 185 622 B1 (SONY CORP) 6 February 2001 (2001-02-06) column 1, line 32 -column 5, line 45 figure 4 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Application No.

PCT/US 01/03864

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5963551	A	05-10-1999	EP WO	0965205 A1 9823067 A1		22-12-1999 28-05-1998
EP 0905950	A	31-03-1999	JP CN EP SG US	11098219 A 1218346 A 0905950 A1 74080 A1 6233224 B1		09-04-1999 02-06-1999 31-03-1999 18-07-2000 15-05-2001
JP 10290237	A	27-10-1998	US	6185622 B1		06-02-2001